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problems, as in determining the *H*-equivalent of zinc, the density of *Cl*, eudiometric combustion of methans, etc.

*Methods of Gas Analysis.* By DR. WALTHER HEMPEL. Macmillan & Co. 399 p. \$1.90.

THIS standard work was translated by Professor L. M. Dennis with the personal co-operation of the author. Part I. discusses general methods, including the collection of samples, the use of gas burettes and pipettes, purification of mercury, and absorption apparatus; Part II. deals with special methods for the several elementary and compound gases; while Part III. presents the practical applications of furnace gases, illuminating gas, the sulphuric acid industry, the atmosphere, elementary analysis, and the heating power of fuel. The reputation of the author is guarantee for the value of this new volume to chemists interested in his lines of work.

#### AMONG THE PUBLISHERS.

A NEW edition of the "New Elementary Algebra," by Charles Davies, LL.D., edited by Professor Van Amringe of Columbia College, has been issued by the American Book Co. This work, it seems unnecessary to say, so well known it is, is designed to supply a connecting-link between arithmetic and algebra, to indicate the unity of the methods, and to conduct the pupil from the arithmetical processes to the more abstract methods of analysis by simple and easy gradations, and to serve as an introduction to more advanced works on the subject. The present edition has incorporated in it such emendations as the progress of educational science has suggested.

— The American Book Company have just published the "Standard Arithmetic," embracing a complete course for schools and academies, by William J. Milne, Ph.D., LL.D., president of the New York State Normal College at Albany. Recognizing the fact that, aside from the general knowledge of arithmetic

necessary to all intelligent persons, there are special applications of this branch of mathematics that call for special training on the part of the student, the author has prepared this work with a view to meeting such requirements. Provision is made to furnish ample practice, for instance, for the student who desires merely to become a rapid and accurate accountant, as well as for the one who prefers the training which cultivates the reasoning powers at the expense of practical expertness in the use of numbers. The scope of the work is sufficiently comprehensive to meet the demands of even the most advanced school.

— "Nature Study for the Common Schools" is the title of a neat volume of about 450 pages from the press of Henry Holt & Co. It is the work of Wilbur S. Jackman, A.B., teacher of natural science in the Cook County Normal School, Chicago, and is intended to be a guide for teachers in the common schools, who wish their pupils to pursue an adequate and symmetrical course in natural science. The plan adopted is based upon what the author believes to be the proper interpretation of the character of the knowledge that the average child may be readily induced to acquire. Instead of endeavoring to give the pupil a thorough knowledge of a few animals and plants, an effort is made to give him some knowledge of everything with which he comes into contact; this knowledge, of course, once acquired to serve both as foundation for and incentive to further acquisitions in the same general direction. The volume, it may be well to add, is written for the teacher, not for the pupil.

— At the October meeting of the Agassiz Club at Corvallis, Oregon, a society recently formed for the discussion of scientific subjects, Professor H. T. French exhibited some clover growing in a root-cage, and showing nitrogen nodules on the roots; Professor Craig, some alfalfa infected with dodder, and Professor Washburn, a new insect-breeding cage. The paper of the evening was by Mr. Thomas Jeffreys, and was entitled "What constitutes American citizenship?"

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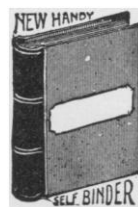
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